

"Section 1.3 Alternative Assignment"

Part A Data: Do this part without the graphics calculator

A truck is carrying books packaged in boxes. The number of books in each box is recorded as shown:

15	1	20	7	15	8	3	20
8	16	5	4	13	17	20	9
6	16	22	12	6	19	7	9
10	15	9	18	19	15	14	15
2	28	10	17	7	10	8	8

- 1) List 3 ways to display data.
- 2) Find the mean, median, mode and range of the data.
- 3) What measure of central tendency best represents the data? Why?
- 4) Create a Stem-and-leaf plot. Don't forget to label the mean.
 - a) Are there any clusters in the data? If so, where?
- 5) Create a Box-and-Whisker:
 - a) What are the lower and upper extremes?
 - b) What are the lower and upper quartiles?
 - c) Construct a box-and-whisker plot. Don't forget the mean!
 - d) Where does 50% of our data lie? What is the typical amount of fat?
- 6) Histogram:
 - a) Complete a frequency table.
 - b) Construct a histogram for the data using bin sizes of 5.
 - c) Mark the mean and median using vertical lines.

Part B: TI-83 Calculator

These are the heights of 30 randomly selected radish seedlings.

5	25	22	32	10	25
21	27	29	39	37	18
10	36	11	33	48	16
24	36	45	38	7	26
15	37	17	22	25	13

- 7) Construct a box and whisker. Sketch and Label. Don't forget the mean.
- 8) Construct a histogram (bin sizes of 10). Sketch and Label. Don't forget to draw the vertical lines for the mean and median.
- 9) Create a double stat plot with both the box & whisker and histogram. Sketch it. This does not need to be labeled.

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